A PROJECT ON

"Online Shopping"

SUBMITTED IN
PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE COURSE OF
DIPLOMA IN ADVANCED COMPUTING FROM CDAC

SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
Hinjawadi

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CERTIFICATE

This is to certify that the project work under the title **Online Shopping Website** is done by **Guruprasad Pujari, Yogesh Chavan, Sanket Karadage and Ajit Shewale** in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

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Project Guide

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Course Co-Coordinator

Date:10-03-2023

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1. INTRODUCTION TO PROJECT

The Online Shopping is a web based application intended for online retailers. The main objective of this application is to make it interactive and its ease of use. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for users to search for products specific to their needs. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. The application also provides a drag and drop feature so that a user can add a product to the shopping cart by dragging the item in to the shopping cart. The main emphasis lies in providing a user friendly search engine for effectively showing the desired results and its drag and drop behaviour.

1.2 Project Scope

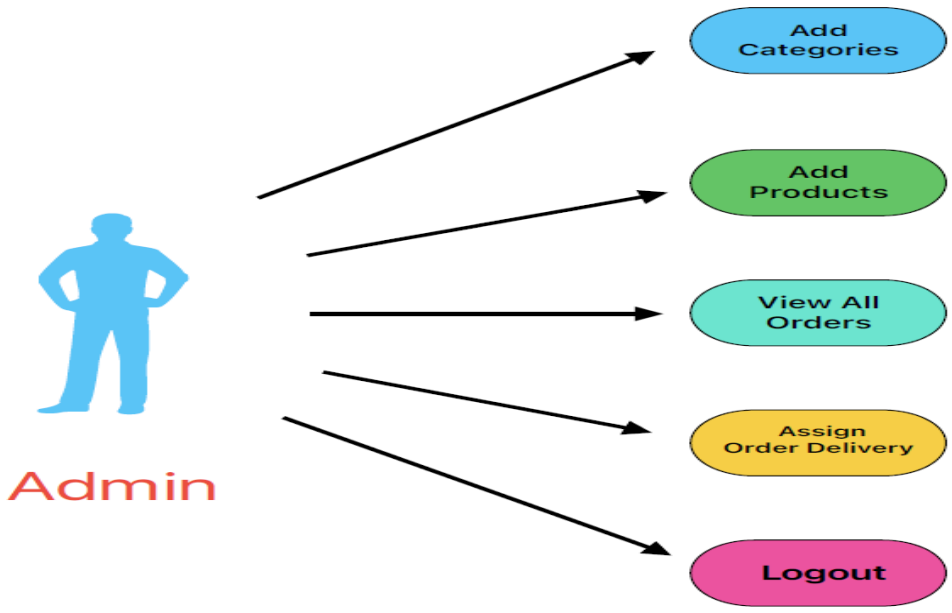
.

The scope of this project is to design and develop a system that is necessary to shops when they need to operate online, sell products online. The current system can be extended to allow the users to create accounts and save products in cart. The web can keep an electronic and clothing details of product. A admin can outsource the function of shipping to another external delivery person. Project scope also includes financial transactions that call for other third party services like UPI gateway. Users can have multiple shipping and billing information saved. Project scope from customer perspective, limits the range of customers to only those who have internet connation. The aim of this project is to promote an efficient, user-friendly, time-fashionable, safe way for customers to bye and receive products without being physically at a shop

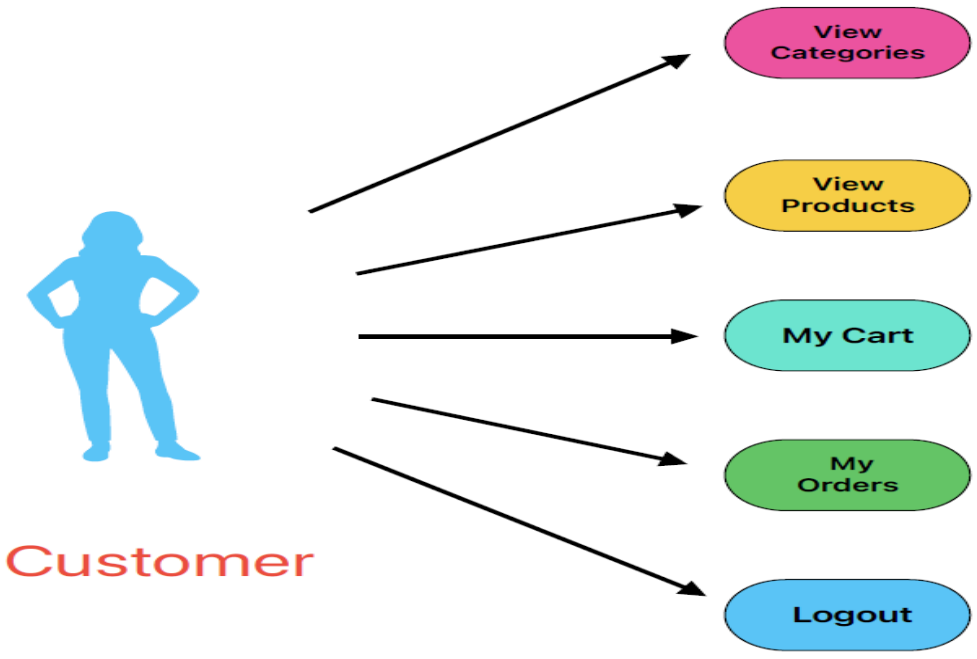
2. REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS

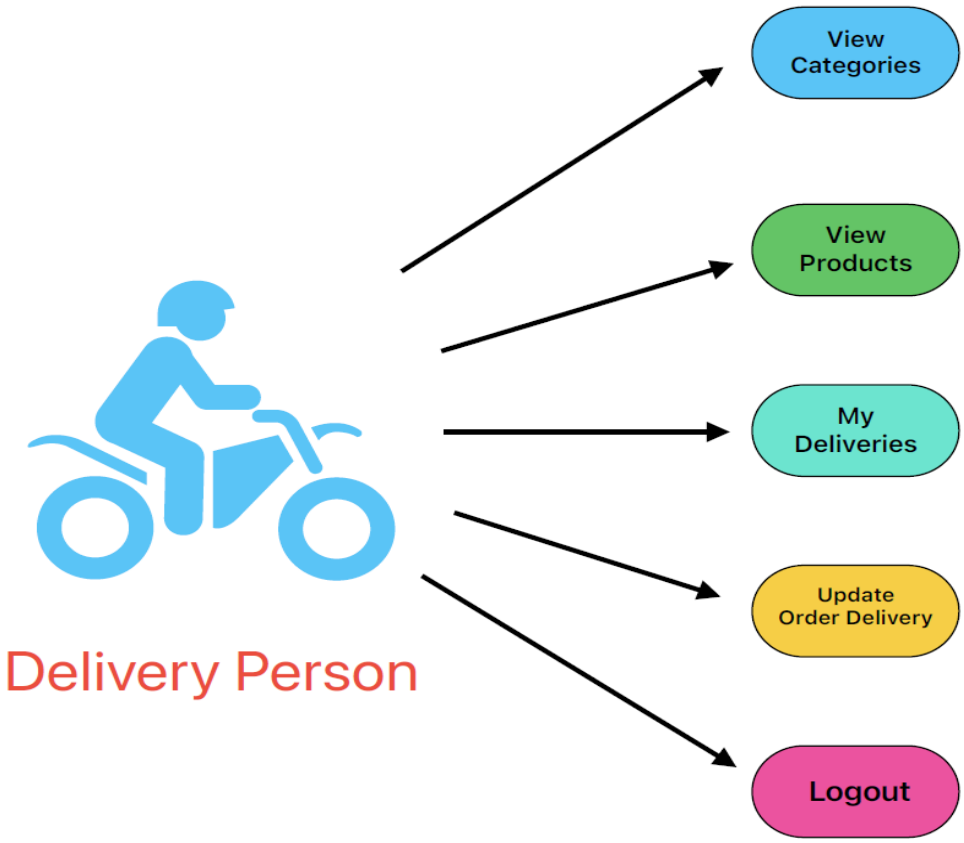
Admin:-



Customer:-



Delivery Person:-



This section contains the requirements for the online shopping-cart application. The Functional requirements, as collected from the users, have been categorized as follows to support

The types of user interactions that the system shall have.

2.1.1. Educational Purpose : -The main purpose of this online shopping-cart application is to teach the basics of the Java, JavaScript, and HTML programming languages along with the concepts of web-application designing.

-The students shall be able to view the source code for the entire application.

-The students shall be able to, individually, view and understand the code for all pieces on the UI.

-The students shall be able to debug the application's source code using Firebug,
Which is an online tool to inspect, edit, and monitor HTML, CSS, and JavaScript requests Directly on the web page.

2.1.2. User -View Categories and Items :-

: The users shall be able to see the home page of the online shopping-cart application when they first run the program. The users shall be able to view the different categories, select categories, browse through the items in each category, and add items to the shopping cart. The users shall be able to view the shopping cart and more information about each item.

-The users shall be able to view the categories on the application's home page.
-The users shall be able to view items in different categories.
-The users shall be able add items to the cart.
-The users shall be able to view more information about an item before adding it to the cart.
-The users shall be able to able view the shopping cart.
-The users shall be able to browse through the available items.

2.1.3. User: View Shopping Cart :- After the first run of the application, the users shall be able to see their designated home page. After browsing through the items and adding items to the shopping cart, the users should be able to view the items in the shopping cart. The users shall be able to check out or continue shopping. The users shall be able to delete items from the cart.

-The users shall be able to view the items added to the cart.
-The users shall be able to check out with the current items in the cart.
-The users shall be able to continue shopping.
-The users shall be able to delete items from the cart.

2.1.4. User: Checkout Items:-

-The users shall be able to check out items only when there are items in the shopping cart.

2.1.5. Login/ User :-

-The users shall login or register using the add user form.

-The users shall not login or register if the information is incomplete or invalid.

2.1.6. User: Place Order:-

-The users shall place an order by completing the information in the order form.

-The users shall not be able to place an order if the information in the order form is invalid or incomplete.

2.1.7. Admin: View User Information:-

-The administrator shall be able to view all the users' information that completes the order form and the checkout process.

2.1.8. Admin: Add/Update/Delete Shopping Items:-

-The administrator shall be able to add new items to the list of shopping items.

-The administrator shall be able to modify/update an item's price and description.

-The administrator shall be able to delete items from the main page of the shopping-cart application.

2.1.9. Admin : Assign order to delivery person:-

-The administrator shall be able to assign order of user to delivery person

- But the delivery person should be registered one.

-User can see the delivery person's name, delivery date and delivery status.

2.1.10. Delivery person: Can view my deliveries:-

- Delivery person can view all order deliveries assigned by administrator.

2.1.11. Delivery person: Can update delivery date and status:-

- Delivery person can update delivery date and status of assigned order by administrator.

-Which is to be displayed to customer.

2.2 NON FUNCTIONAL REQUIREMENTS

2.2.1 Interface

Go to Appendix B for user interfaces

2.2.2 Performance

- **Number of Concurrent Users:**

Online Shopping Website shall be able to handle at least 1000 transactions/inquiries per second

2.2.3 Constraint

Online Shopping Website shall be able to handle at least 1000 transactions/inquiries per second

2.2.4 Other Requirements:

- **Hardware Interfaces**

The SPMS is expected to function on Intel PIII 900 MHz Processor equivalent or above, 128 MB RAM, 20 GB HDD.

- **Software Interfaces**

The SPMS shall work on MS Windows operating systems family (MS Windows 98, MS Windows NT Workstation, MS Windows 2000, MS Windows XP). It configures to work with Oracle database. This System works on Apache Tomcat server. It uses browser IE 5.0 & above. It uses IIS 5.0 server.

3. DESIGN

3.1 Database Design

The following table structures depict the database design.

Table1: User Info

➢ **User Table:**

Field	DataType(size)	Null	Key	DefaultValue	Extra
id	int	NO	PRI	NULL	auto_increment
email_id	varchar(255)	YES	-	NULL	-
first_name	varchar(255)	YES	-	NULL	-
last_name	varchar(255)	YES	-	NULL	-
password	varchar(255)	YES	-	NULL	-
phone_no	varchar(255)	YES	-	NULL	-
role	varchar(255)	YES	-	NULL	-
address_id	int	YES	MUL	NULL	-

Table2: Address

➢ **Address Table:**

Field	DataType(size)	Null	Key	DefaultValue	Extra
id	int	NO	PRI	NULL	auto_increment
city	varchar(255)	YES	-	NULL	-
pincode	int	NO	-	NULL	-
street	varchar(255)	YES	-	NULL	-

Table3: Category

➢ **Category Table:**

Field	DataType(size)	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
description	varchar(255)	YES	-	NULL	-
title	varchar(255)	YES	-	NULL	-

Table4: Product

➢ **Product Table:**

Field	DataType(size)	Null	Key	DefaultValue	Extra
id	int	NO	PRI	NULL	auto_increment
description	varchar(255)	YES	-	NULL	-
image_name	varchar(255)	YES	-	NULL	-
price	decimal(19,2)	YES	-	NULL	-
quantity	int	NO	-	NULL	-
title	varchar(255)	YES	-	NULL	-
category_id	int	YES	MUL	NULL	-

Table5: Cart

➢ **Cart Table:**

Field	DataType(size)	Null	Key	DefaultValue	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO	-	NULL	-
Product_id	int	YES	MUL	NULL	-
user_id	int	YES	MUL	NULL	-

Table 6 : Order

➢ **Orders Table:**

Field	DataType(size)	Null	Key	DefaultValue	Extra
id	int	NO	PRI	NULL	auto_increment
delivery_assigned	varchar(255)	YES	-	NULL	-
delivery_date	varchar(255)	YES	-	NULL	-
delivery_person_id	int	NO	-	NULL	-
delivery_status	varchar(255)	YES	-	NULL	-
delivery_time	varchar(255)	YES	-	NULL	-
order_date	varchar(255)	YES	-	NULL	-
order_id	varchar(255)	YES	-	NULL	-
quantity	int	NO	-	NULL	-
product_id	int	YES	MUL	NULL	-
user_id	int	YES	MUL	NULL	-

E-R Diagram, Dataflow diagram and Class Diagram:

4. CODING STANDARDS IMPLEMENTED

Naming and Capitalization

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	**Case**	**Examples**	**Additional Notes**
Class	Pascal	Person, BankVault, SMSMessage, Dept	Class names should be based on "objects" or "real things" and should generally be **nouns**. No '_' signs allowed. Do not use type prefixes like 'C' for class.
Method	Camel	getDetails, updateStore	Methods should use **verbs** or verb phrases.
Parameter	Camel	personName, bankCode	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	Disposable	Do not use the '_' sign
Property	Pascal	ForeColor, BackColor	Use a noun or noun phrase to name properties.
Associated private member variable	_camelCase	_foreColor, _backColor	Use underscore camel casing for the private member variables
Exception Class	Pascal with "Exception" suffix	WebException,	

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.

GENERAL TESTING:

SR-NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	Redirected to Next page	OK	Nothing
2	Login Page	Pop-up will come	Ok	Please enter username and password again .
3	Reset login	Only user password will be reset	Ok	Nothing
4	Filtering product by category	Gives products by category	Ok	Nothing
5	Adding product to cart	Pop up will come product added to cart	Ok	Nothing
6	Checking login or not	User is logged in or not	Ok	Nothing
7	Doing checkout for product	Add information according to no of seats allocated	Ok	Nothing
8	Add info of payment type	Info added to specific persons card	Ok	Nothing
9	View transaction done	It shows you all transactions done previously	Ok	Nothing
10	Admin will assign deliver person to the order	Order is assigned to registered delivery person	Ok	Nothing
11	Delivery person update the delivery date and status	User can view order status and delivery date	Ok	Nothing
12	Logout	It will logout from user profile.	Ok	Nothing
	STATIC TESTING			
SR-NO	**Deviation**	**Program**		
1	Commenting not followed	All Web Application		

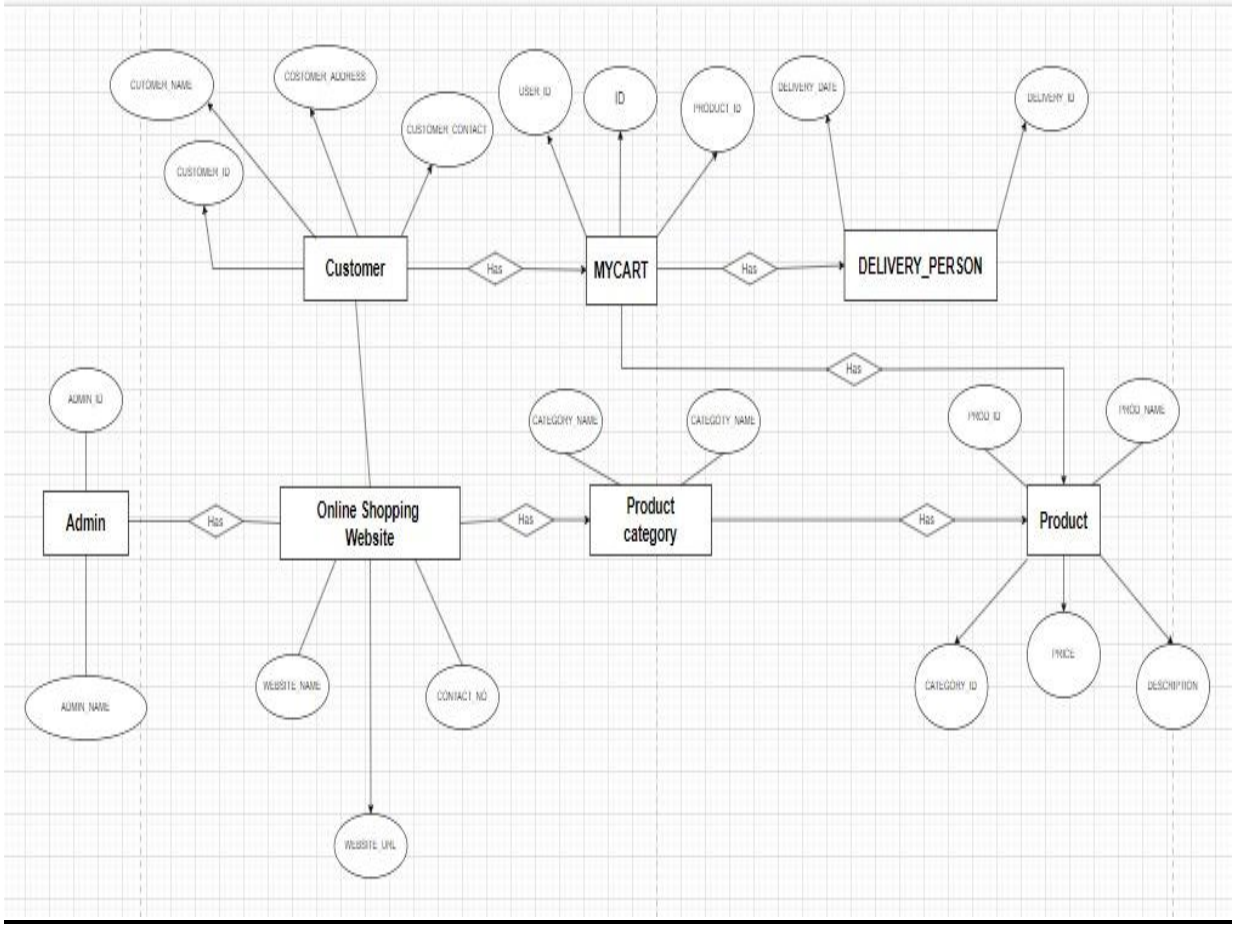
6. PROJECT MANAGEMENT RELATED STATISTICS

DATE	WORK PERFORMED	*SLC Phase*	Additional Notes
JAN 12,2023	Project Allotment and User Requirements Gathering	Feasibility Study	Our team met the client Mr. Nitin Kudale (CEO, SIIT Pune) to know his requirements.
JAN 17,2023	Initial SRS Document Validation And Team Structure Decided	Requirement Analysis (Elicitation)	The initial SRS was presented to the client to understand his requirements better
JAN 18,2023	Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces	Requirement Analysis & Design Phase	Database Design completed
JAN 19,2023	Business Logic Component design Started	Design Phase	----------
JAN 20,2023	Coding Phase Started	Coding Phase	70% of Class Library implemented.
JAN 21,2023	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development going on.
JAN 22, 2023	Off	Off	Off
JAN 23, 2023	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	Class Library Modified as per the need.
JAN 24, 2023	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	--

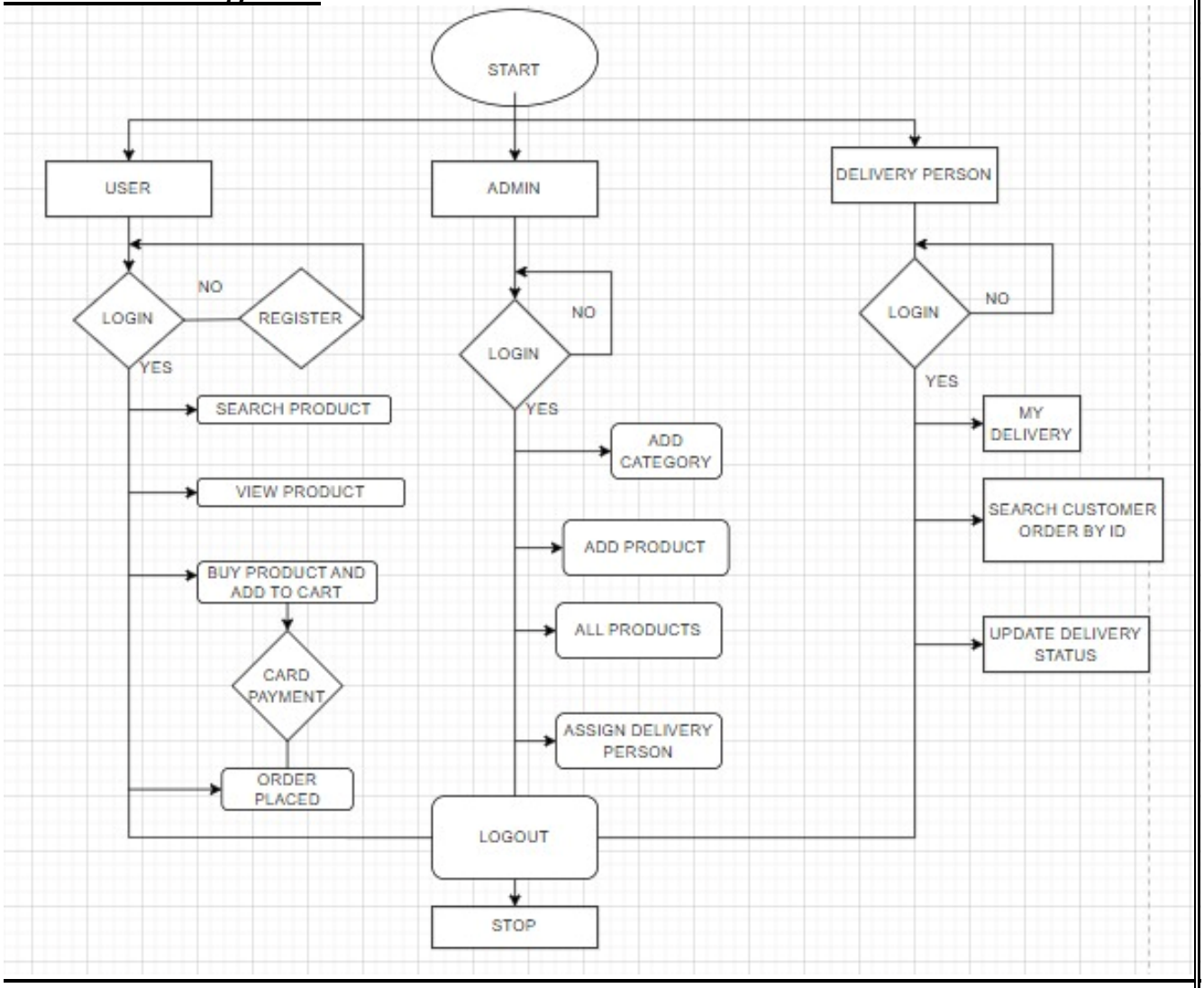
JAN 25, 2023	After Ensuring Proper Functioning the Required Validations were Implemented	Coding Phase and Unit Testing	Module Integration was done by the Project Manager
JAN 26, 2023	The Project was Tested by the respective Team Leaders and the Project Manager	Testing Phase (Module Testing)	--
JAN 27, 2023	The Project was Submitted to Other Project Leader of Other Project Group For Testing	Testing Phase (Acceptance Testing)	The Project of Other Team was Taken up by the Team for Testing
JAN 07-08, 2023	The Errors Found were Removed	Debugging	The Project was complete for submission
FEB 09-02, 2023	Final Submission of Project		

Appendix A

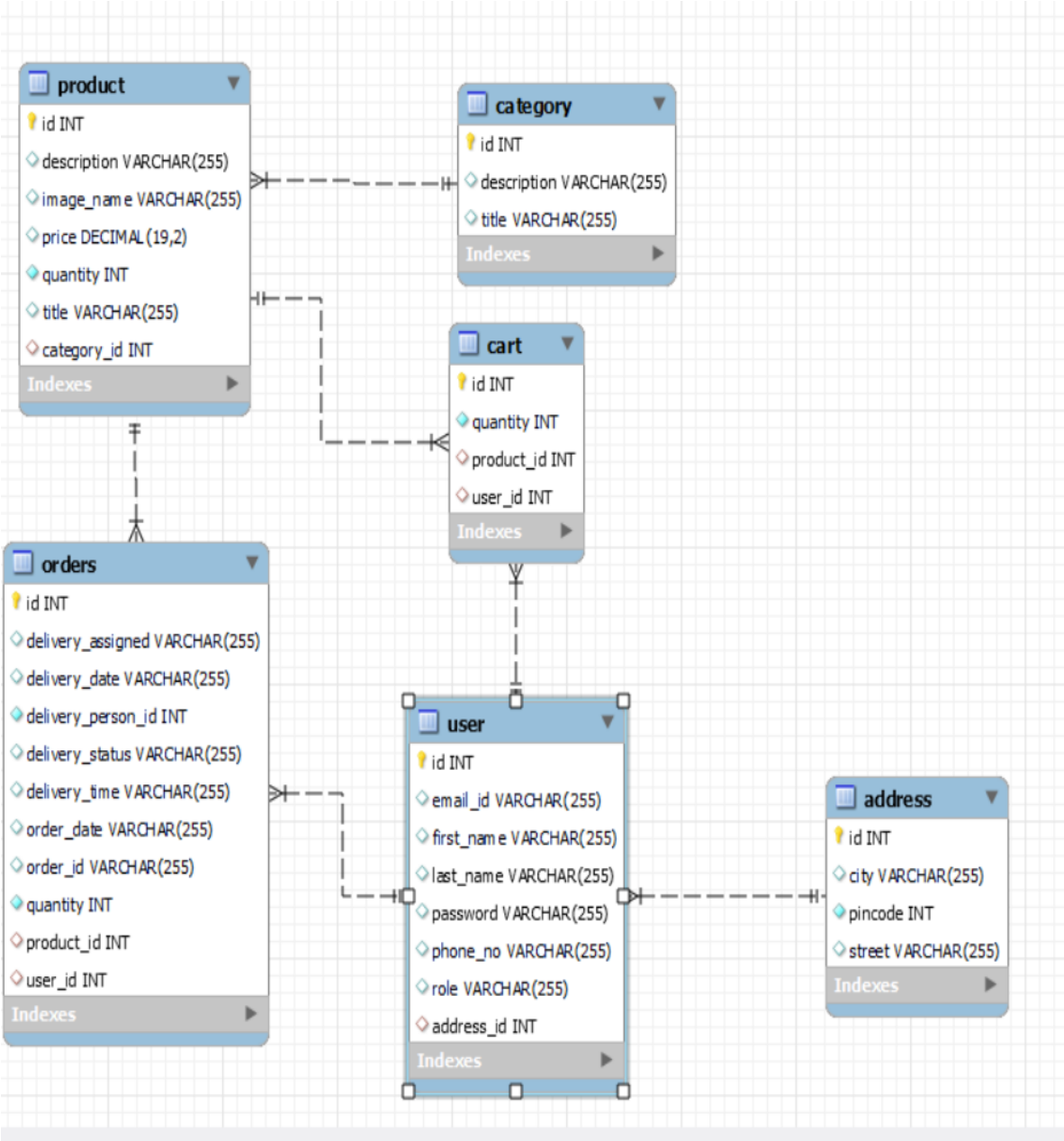
Entity-Relationship Diagram



Data Flow Diagram:

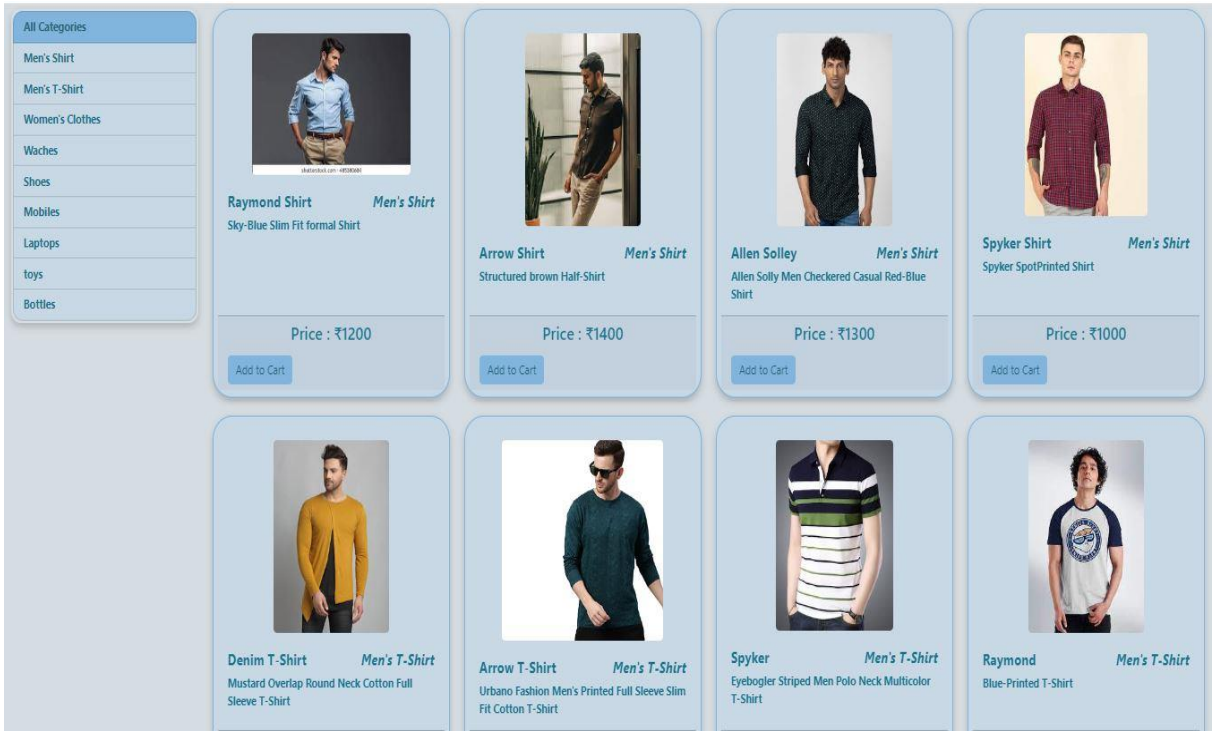


ClassDiagram:-

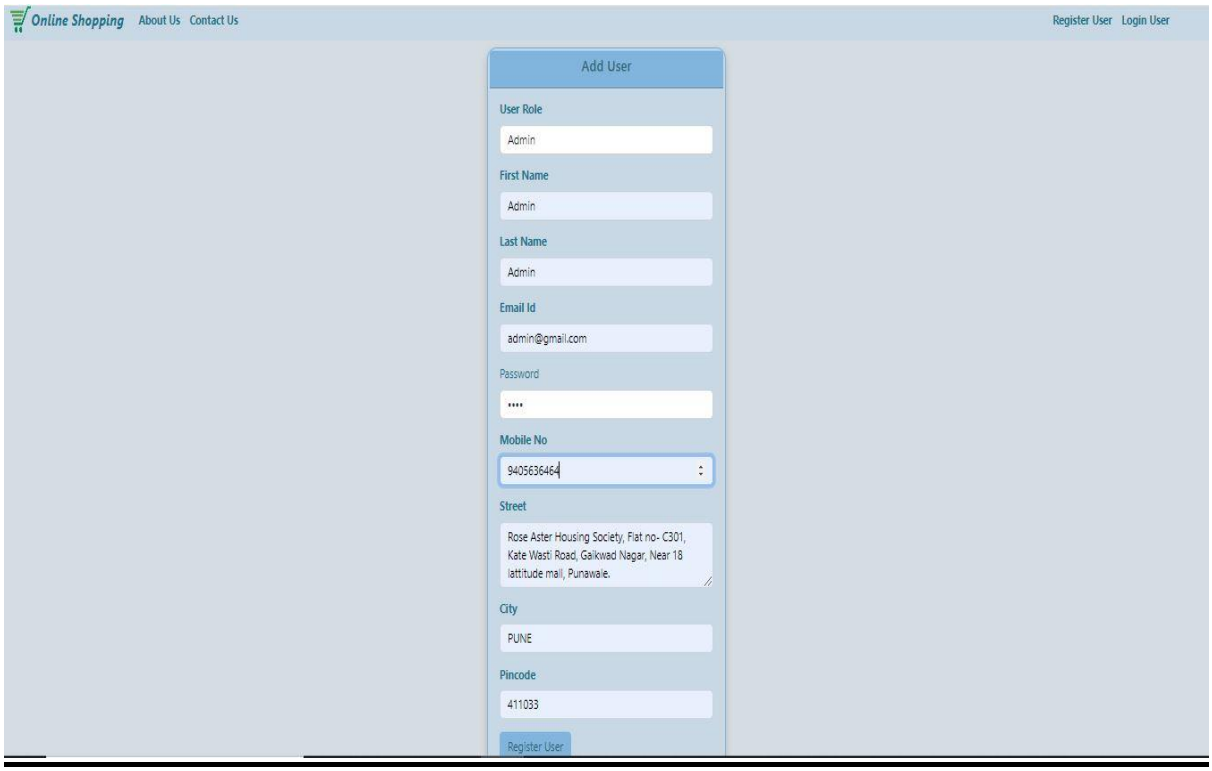


Appendix B

Homepage:

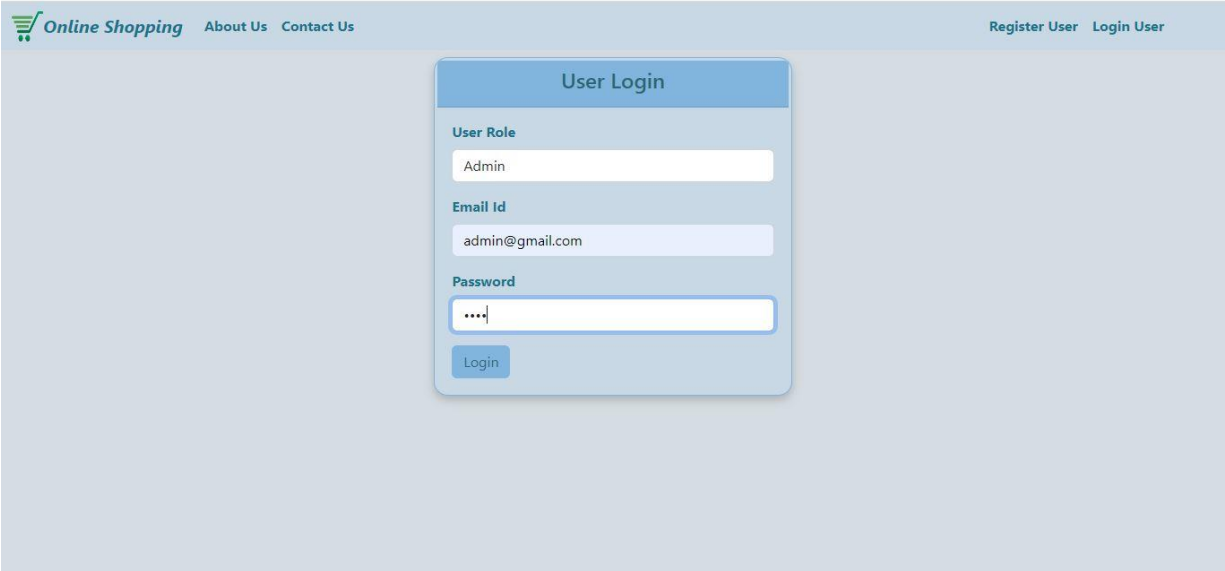


Admin Registration:-

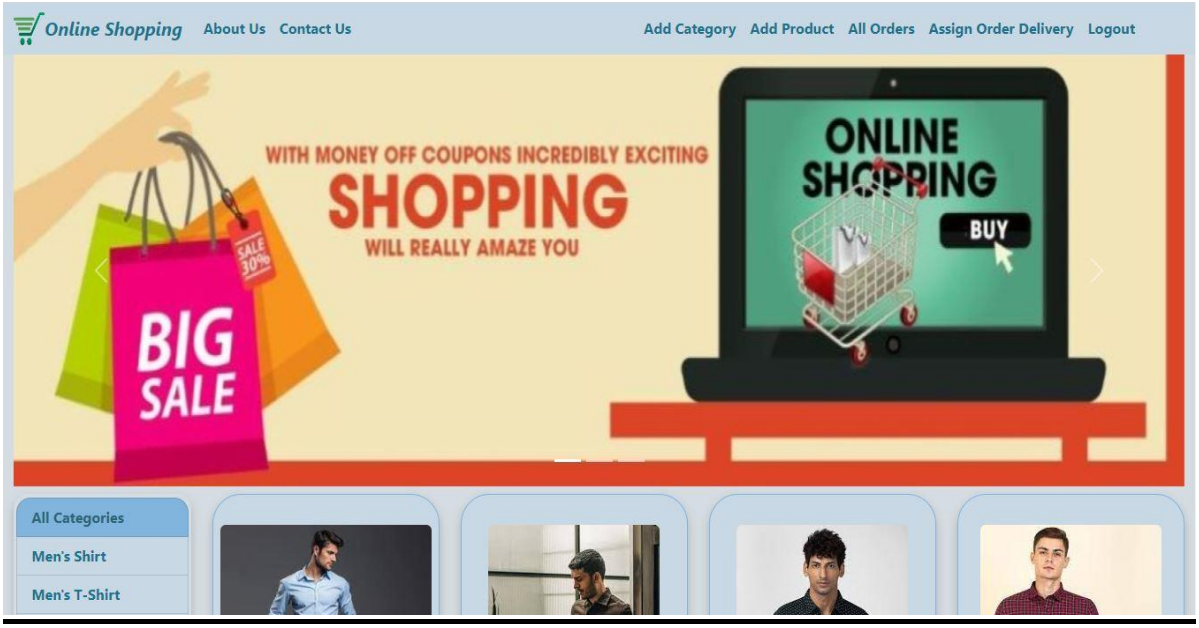


About:-

Admin Login:

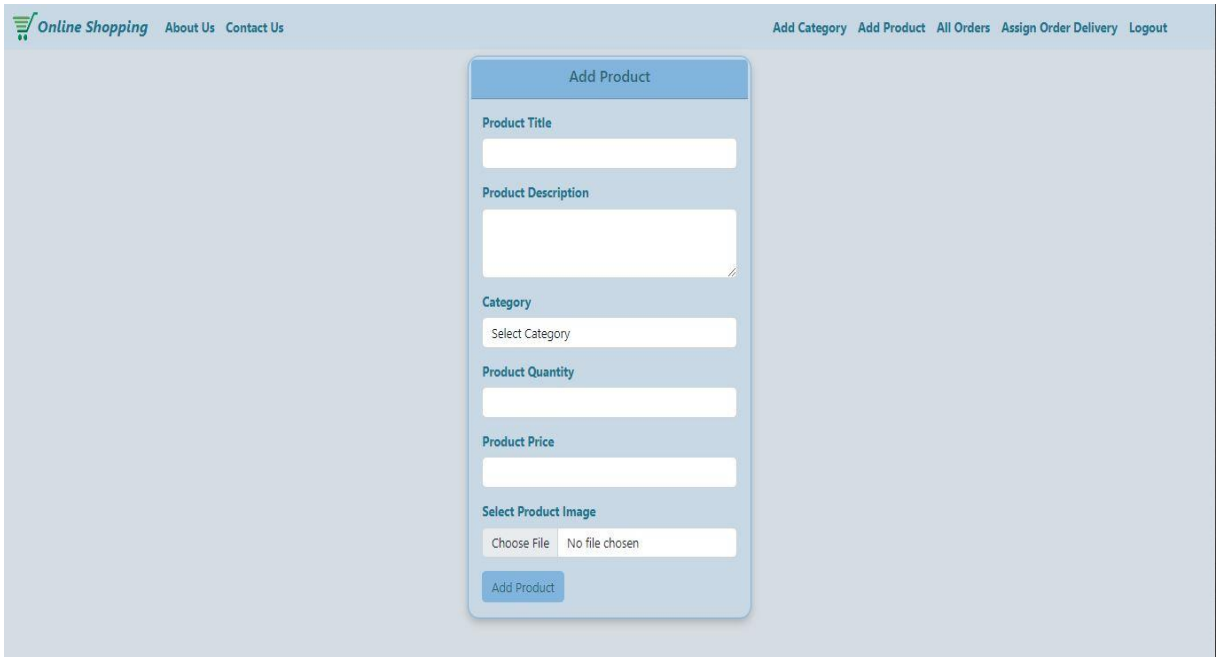


Admin Dashboard :

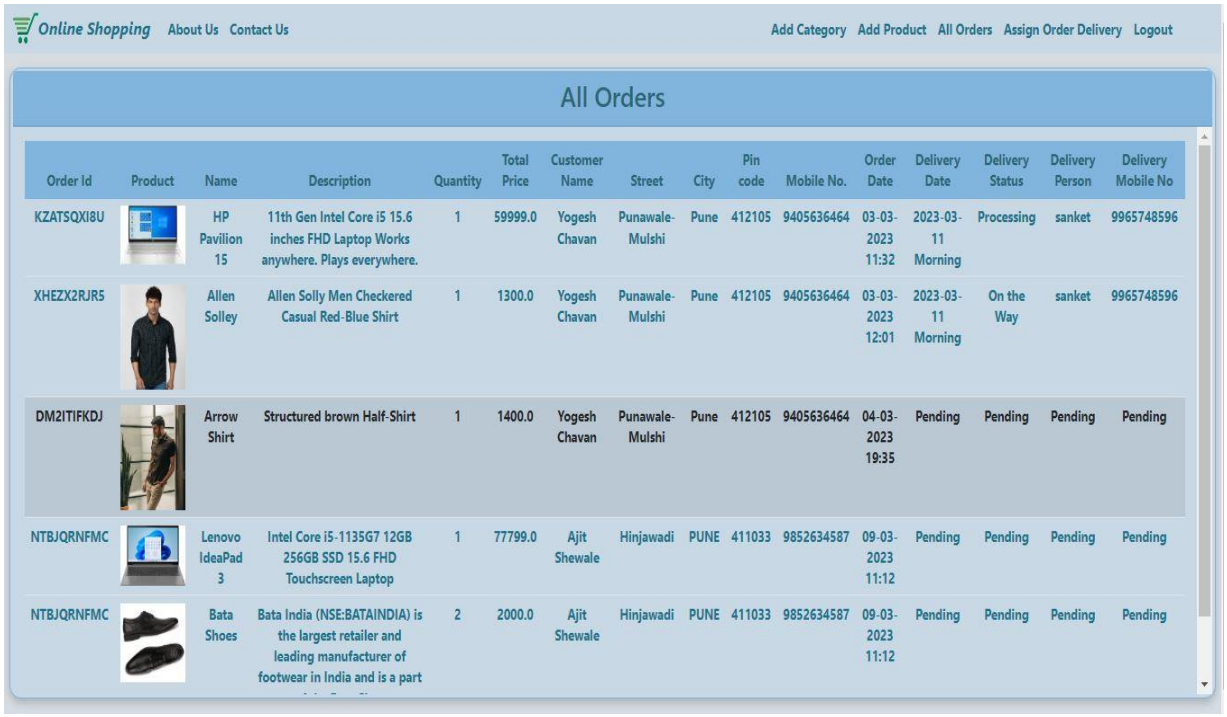


Add Category:-

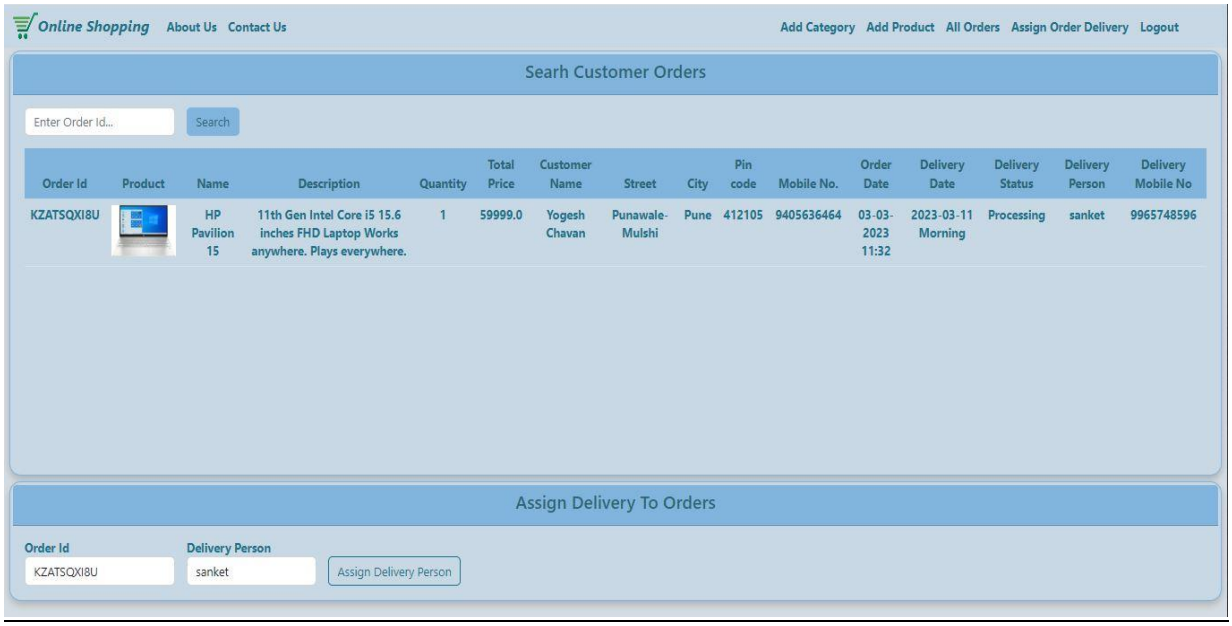
Add Product:-



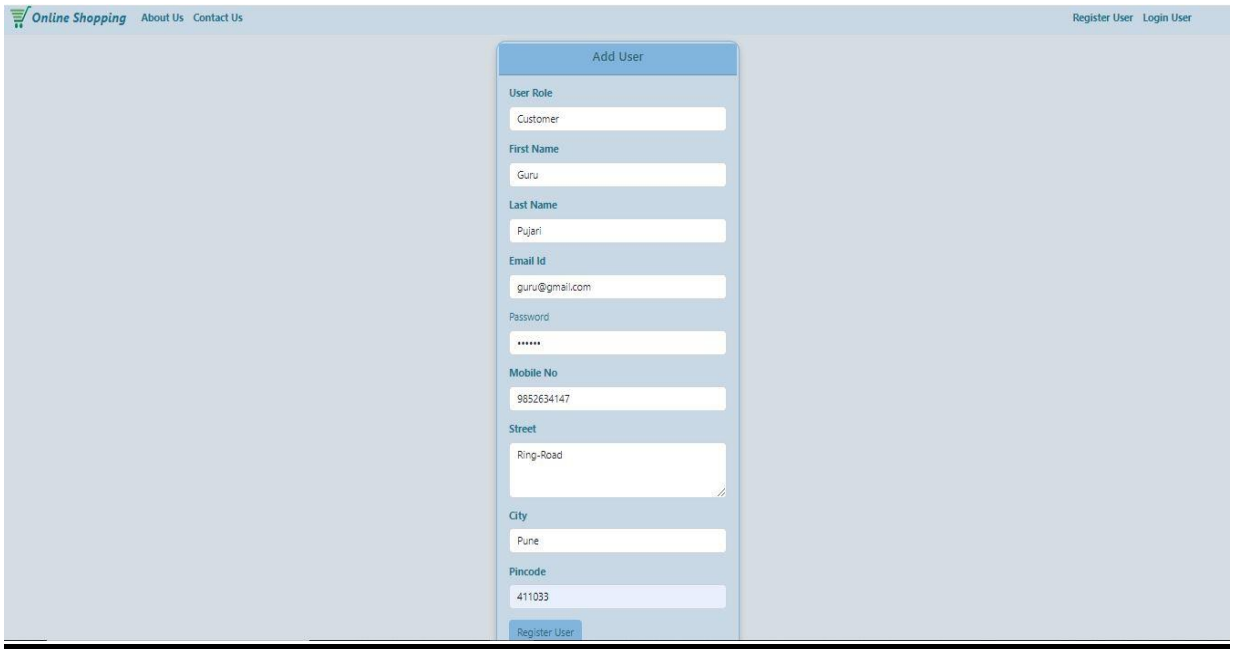
All Orders:-



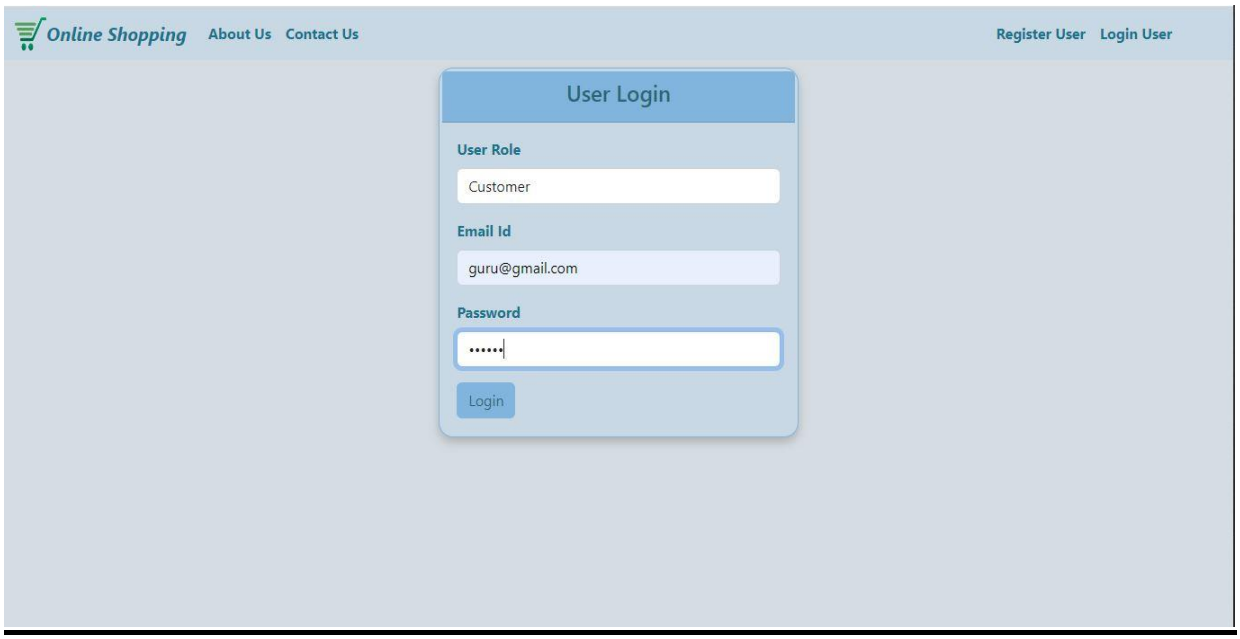
Assign Delivery Person:-



Customer Registration:-



Customer Login:



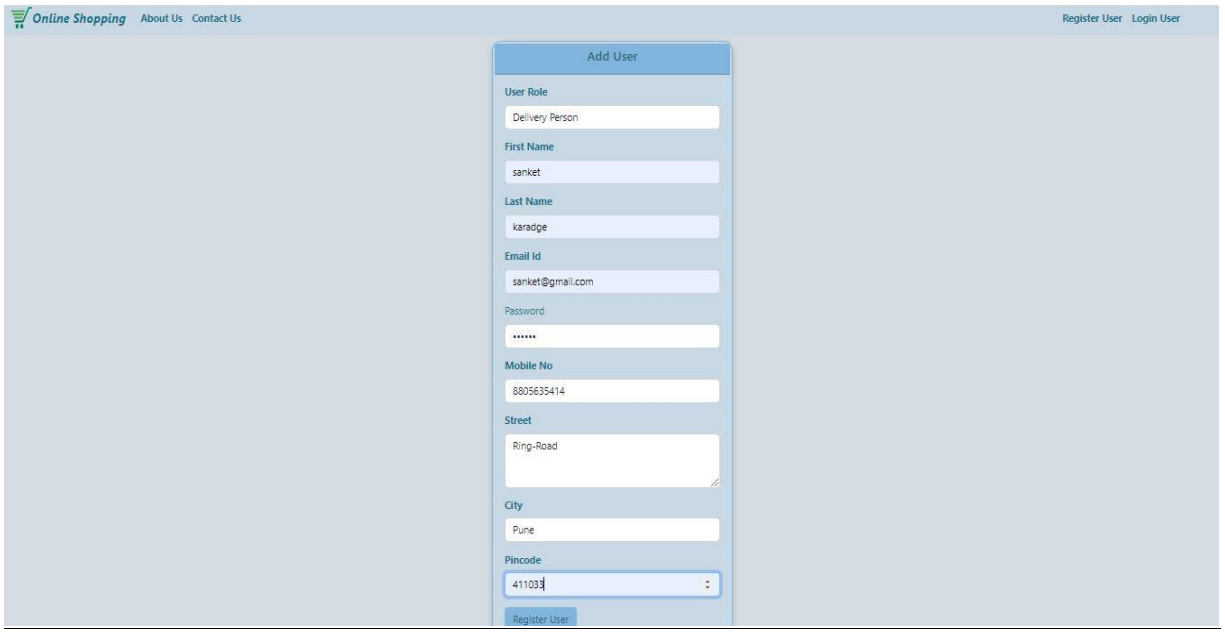
Customer Dashboard:

My Cart:-

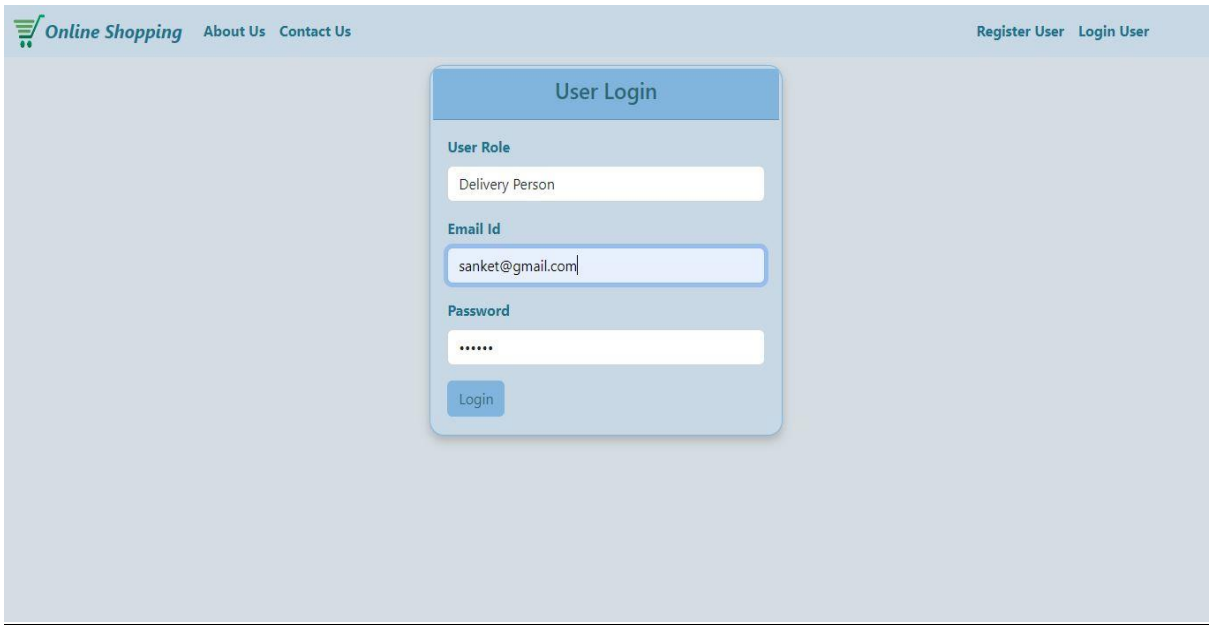
MyOrder:-

Payment Details:-

Delivery Person Registration:-

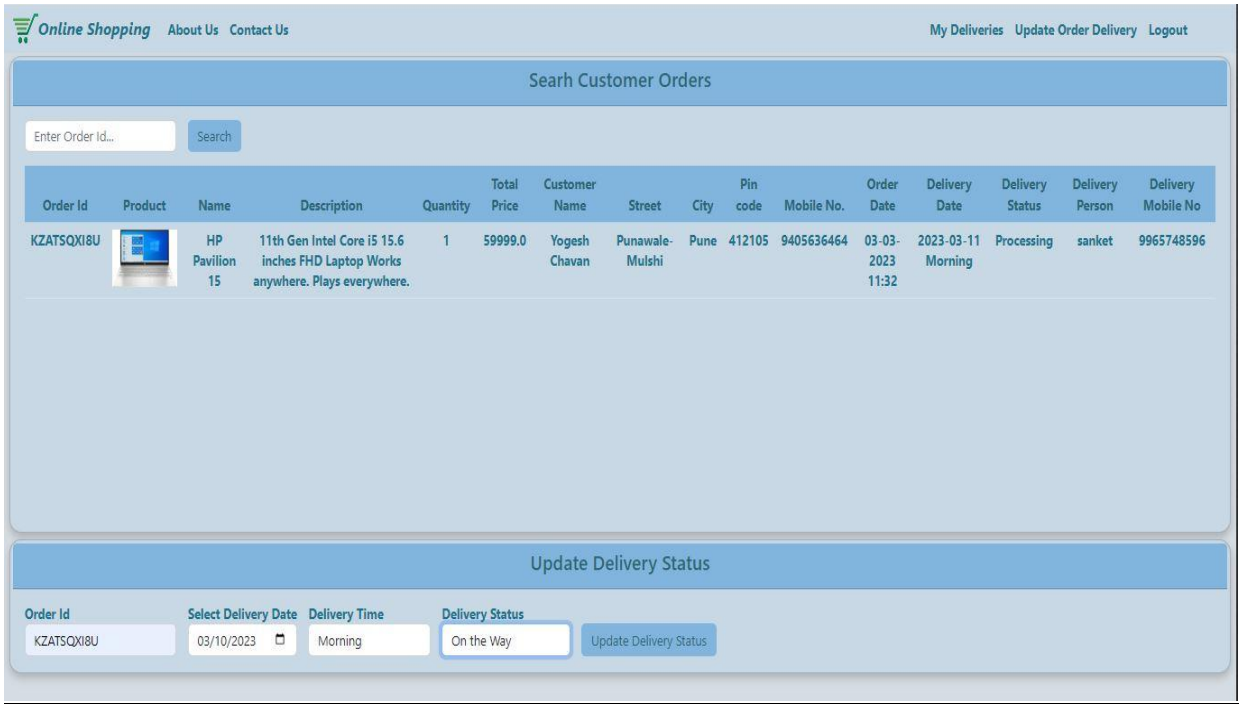


Delivery Person Login:-



My Deliveries:-

Update Delivery Status:-



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